	Application No.	Applicant(s)	
Notice of Allowability	10/643,958	NAGATA ET AL.	
	Examiner	Art Unit	
	David N. Spector	2873	
The MAILING DATE of this communication appeals of the communication appeals of the communication appeals of the communication appeals of the Office of MAILING DATE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate committee IGHTS. This application is	n this application. If not included unication will be mailed in due cour	rse. THIS
1. This communication is responsive to <i>FAOM</i> .			
2. X The allowed claim(s) is/are <u>1-16</u> .			
3. $igotimes$ The drawings filed on <u>08/20/2003</u> are accepted by the Exa	aminer.		
 4. Acknowledgment is made of a claim for foreign priority unally all b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN.	e been received. e been received in Application cuments have been receive	on No d in this national stage application	
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	w (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	formal Patent Application (PTO-15 ummary (PTO-413),	52)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	08), 7. 🗌 Examiner's	/Mail Date Amendment/Comment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	<u> </u>	Statement of Reasons for Allowan AILED ACTION - ALLOWANCE.	ice
		DAVID SPECTOR	

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

Notice of Allowability

Part of Paper No./Mail Date 0904

DETAILED ACTION - ALLOWANCE

1. Claims 1-16 are allowed. All claims thus being allowable, prosecution on the merits is closed in this application. A statement of the examiner's reasons for allowance is provided in the paragraph which follows below.

Reasons for Allowance

2. The primary reason for allowance of the claims is the inclusion a novel structural/functional combination in all of the claims, wherein a deformable element is used for focusing, and two moveable lens groups are used for zooming or compensating for fluctuations of an image surface. The aforesaid structural/functional combination is broadly recited in independent claim 1 (Claim 1, Lines 2-6), and more somewhat more narrowly in independent claim 11 (Claim 11, Lines 3-9). The prior art taken either singly or in combination fails to anticipate or fairly suggest the limitations of applicant's independent claims, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The claimed invention is therefore considered to be in condition for allowance as being novel and nonobvious over prior art.

Other Remarks/Information

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Nishioka et al. (US-6,618,209-B2; US-6,464,363-B1; US-2004/0070843-A1; US-

Application/Control Number: 10/643,958

Art Unit: 2873

2004/0027684-A1), Amanai (US-2003/0179464-A1), and Mihara et al. (US-2002/0136150-A1),

Page 3

inter alia, disclose representative examples in the art to which the instant invention pertains. In

particular, each of the aforesaid examples presents zoom optical systems comprising at least

one deformable mirror which is used to provide the optical functionality (e.g. focusing, zooming,

compensation of image fluctuations upon zooming, etc.) generally provided in prior art systems

by moving at least one refractive lens group(s) along the optical axis thereof.

5. Information regarding the status of an application may be obtained from the Patent Ap-

plication Information Retrieval (PAIR) system. Status information for published applications may

be obtained from either Private PAIR or Public PAIR. Status information for unpublished appli-

cations is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR sys-

tem, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

6. Any other inquiry concerning this communication or earlier communications from the ex-

aminer should be directed to David N. Spector whose telephone number is (571) 272-2338. The

examiner can normally be reached at this number Monday through Friday between 6:00 AM and

2:30 PM. The fax number for the organization where this application is assigned is (703) 872-

9306.

September 24, 2004

DAVID N. SPECTOR

PRIMARY EXAMINER